

WHAT IS CLAIMED IS:

1. An engine generator apparatus comprising:

a generator driven by an engine; and

an oxygen density sensor for controlling the air-fuel ratio

5 of the engine,

wherein the engine is controlled so as to rotate almost at
a constant speed and

wherein when an electric load which magnitude is more than
a predetermined value is connected to the generator, a control of
10 the air-fuel ratio to the engine based on a detection signal of
the oxygen density sensor is started.

15 2. The engine generator apparatus as claimed in claim 1, wherein
when the generator is brought into a no-load operating state, the
control of the air-fuel ratio to the engine based on a detection
signal of the oxygen density sensor is stopped.

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3. The engine generator apparatus as claimed in claim 1 or
2, further comprising:

an output control unit that supplies electric power generated
by the generator to the load, and interconnects the electric power

25 to a power network;

failure detection means for detecting a disorder in

interconnection of the engine generator apparatus to the power network; and

means for releasing the interconnection of the engine generator apparatus to the power network when the failure detection means
5 detects the disorder.

4. The engine generator apparatus as claimed in claim 1 or
10 2, wherein the engine and the generator form parts of a co-generation system provided with an exhaust heat utilizing unit as the electric load; and

the engine is started by a heat request signal from the exhaust heat utilizing unit.

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5. The engine generator apparatus as claimed in claim 3, wherein the engine and the generator form parts of a co-generation system
20 provided with an exhaust heat utilizing unit as the electric load; and

the engine is started by a heat request signal from the exhaust heat utilizing unit.